

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
17 February 2005 (17.02.2005)

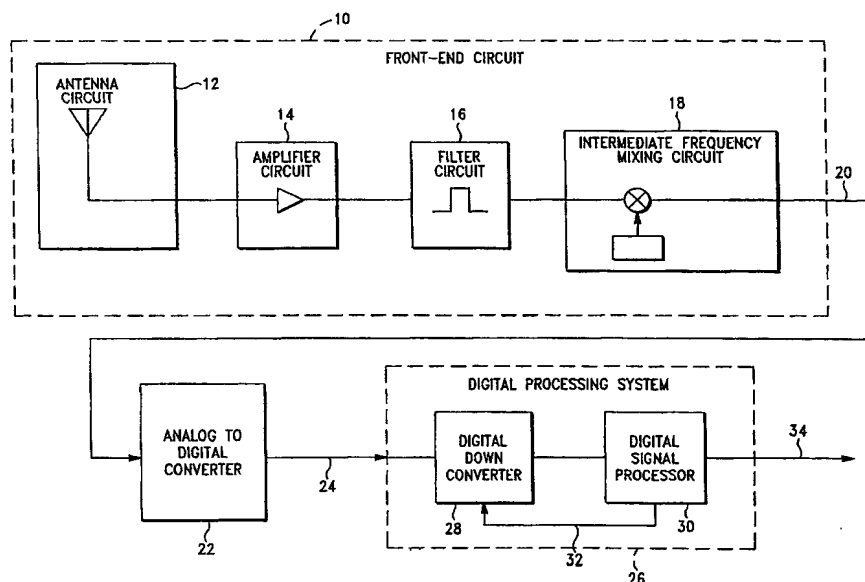
PCT

(10) International Publication Number  
**WO 2005/015760 A1**

- (51) International Patent Classification<sup>7</sup>: **H04B 1/40** (74) Agents: **HOIRIIS, David et al.**; Honeywell International, Inc., 101 Columbia Road, P.O. Box 2245, Morristown, NJ 07960 (US).
- (21) International Application Number: PCT/US2004/021885
- (22) International Filing Date: 9 July 2004 (09.07.2004) (81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:  
10/616,796 10 July 2003 (10.07.2003) US
- (71) Applicant (*for all designated States except US*): **HONEYWELL INTERNATIONAL** [US/US]; 101 Columbia Road, P.O. Box 2245, Morristown, NJ 07960 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (*for US only*): **GIBSON, Timothy, P.** [US/US]; 5020 Millridge, Shawnee, KS 66226 (US). **TRIPLETT, Gregory, L.** [US/US]; 16670 Ridgeview Road, Olathe, KS 66062 (US). **RICHEY, Manuel, F.** [US/US]; 29005 Orchard Road, Paola, KS 66071 (US). **HUNTER, Jeffrey K.** [US/US]; 14541 S. Alden Street, Olathe, KS 66062 (US).
- (84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: RADIO RECEIVER FOR AVIATION COMMUNICATIONS AND NAVIGATION



(57) Abstract: A radio receiver is provided that includes a front-end circuit operable to receive radio signals transmitted across a frequency band and generate an analog signal corresponding to a plurality of channels within the frequency band. Also included is an analog to digital converter operable to convert the analog signal to a digital signal, and a digital processing system operable to process the digital signal and simultaneously generate one or more output signals corresponding to at least one of the plurality of channels within the frequency band. Various exemplary embodiments of the radio receiver and associated method are provided.



**Published:**

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*